

CLAIMS

What is claimed is:

1. (Original) A blow head mechanism for blowing a parison in a blow mold of a blow station of an I.S. machine and cooling the blown parison so that a bottle will be formed which can be removed from the blow station comprising
 - a blow head assembly,
 - support means for supporting said blow head assembly,
 - first displacement means for displacing said support means to displace said blow head assembly between a remote up position and an advanced down position,
 - said blow head assembly including a blow tube selectively displaceable between an up position and a down position,
 - second displacement means for displacing said blow tube from the up position down to the down position and then back up to the up position at least one time during the time the parison is blown and cooled,
 - said blow tube being open at the bottom,
 - an air deflector having an annular, concave surface terminating at the top with a vertically extending post for deflecting air traveling axially down the blow tube uniformly radially outwardly and
 - a supporting frame for supporting said air deflector proximate the open bottom of said blow tube.
2. (Original) A blow head mechanism for blowing a parison in a blow mold of a blow station of an I.S. machine and cooling the blown parison so that a bottle will be formed which can be removed from the blow station according to claim 1, wherein said supporting frame supports said vertically extending post coaxial with the axis of the blow tube.

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Reply to Office Action of March 12, 2008

3. (Original) A blow head mechanism for blowing a parison in a blow mold of a blow station of an I.S. machine and cooling the blown parison so that a bottle will be formed which can be removed from the blow station according to claim 2, wherein the open bottom of said blow tube has an annular recess and said supporting frame includes an annular flange to be press fit into the annular recess and a plurality of struts connecting the top of the vertically extending post to said annular flange.

4. (Original) A blow head mechanism for cooling a formed bottle comprising
a blow head assembly,
support means for supporting said blow head assembly,
first displacement means for displacing said support means to displace said blow head assembly between a remote up position and an advanced down position,
said blow head assembly including a blow tube selectively displaceable between an up position and a down position,
second displacement means for displacing said blow tube from the up position down to the down position and then back up to the up position at least one time during the time the bottle is cooled,
said cooling tube being open at the bottom,
an air deflector having an annular, concave surface terminating at the top with a vertically extending post for deflecting air traveling axially down the blow tube uniformly radially outwardly and
a supporting frame for supporting said air deflector proximate the open bottom of said blow tube.